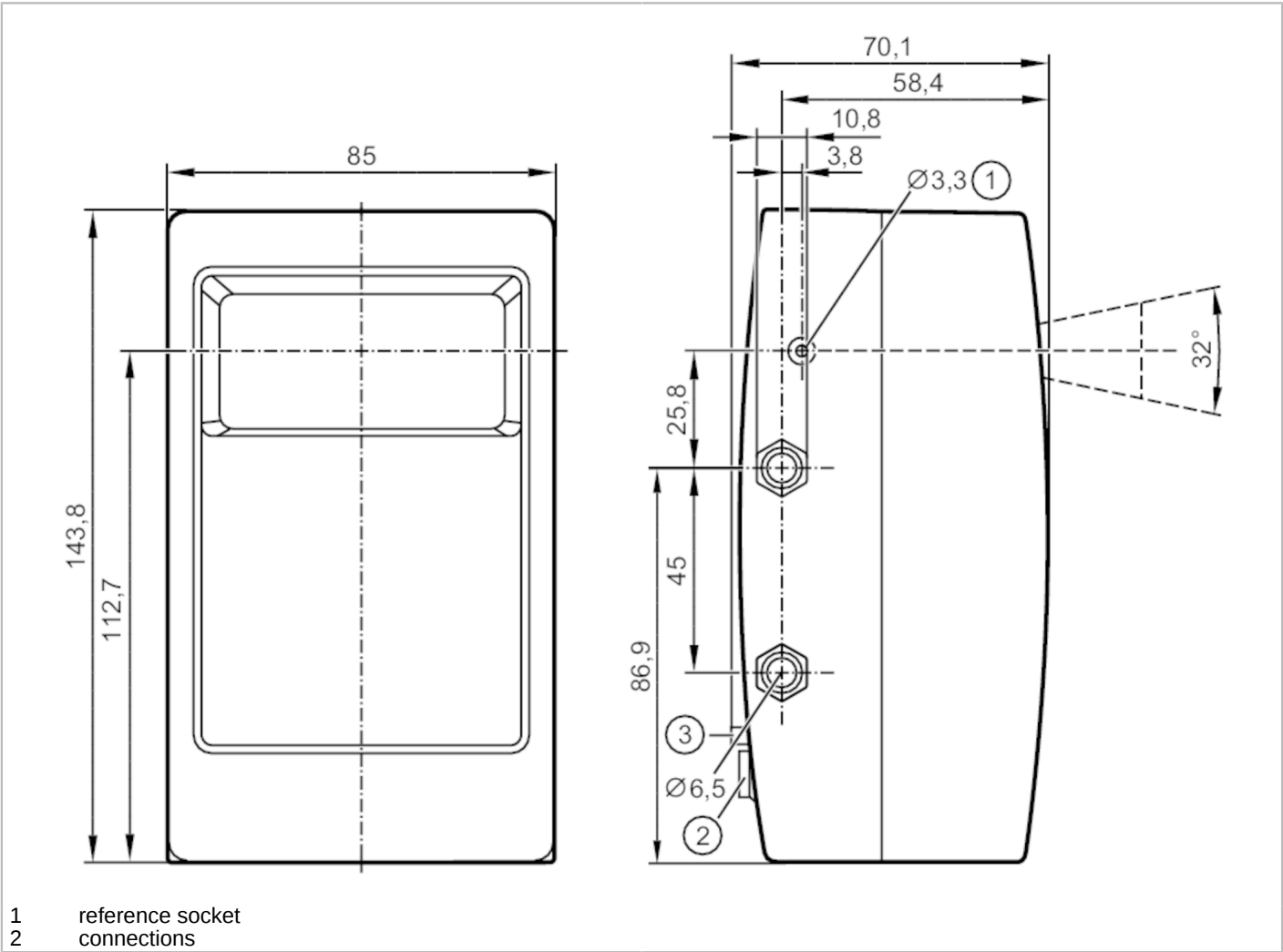


O3M160



3D sensor for mobile applications

O3MXOOKG/CAN/E3/GM/95



- 1 reference socket
2 connections



Product characteristics

Type of light		infrared light
Image resolution 3D	[px]	64 x 16
Angle of aperture 3D	[°]	95 x 32
Image repetition frequency 3D	[Hz]	25 / 33 / 50

Application

Application	output of 3D image data
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Electrical data

Operating voltage	[V]	9...32 DC
Current consumption	[mA]	< 400
Power consumption	[W]	3.6
Protection class		III
Type of light		infrared light
Image sensor		PMD 3D ToF-Chip



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Detection zone		
Image resolution 3D	[px]	64 x 16
Angle of aperture 3D	[°]	95 x 32
Image repetition frequency 3D	[Hz]	25 / 33 / 50
Software / programming		
Parameter setting options		via PC with ifm Vision Assistant
Interfaces		
Communication interface		CAN; Ethernet
Number of CAN interfaces		1
Number of Ethernet interfaces		1
Note on interfaces		Output of preprocessed data via CAN interface
CAN		
Transmission rate		250 (125...1000) kBaud
Protocol		CANopen; UDS
Factory settings		J1939 interface: Default
		device address (ECU): 239
		UDS interface: 500 (125...1000) kBaud
Usage type		parameter setting; data transmission
Ethernet		
Protocol		UDP/IP
Factory settings		IP address: 192.168.1.1
		subnet mask: 255.255.255.0
		target IP address: 255.255.255.255
		target port: 42000
Usage type		data transmission
Operating conditions		
Ambient temperature	[°C]	-40...85
Note on ambient temperature		with high image repetition frequency of 25 Hz
Storage temperature	[°C]	-40...105
Protection		IP 67; IP 69K; (with mounted connectors or protective caps)
Max. immunity to extraneous light	[klx]	120
Tests / approvals		
EMC	DIN EN 61000-6-4	industrial environments
	DIN EN 61000-6-2	industrial environments
Shock resistance	DIN EN 60068-2-27	30 g / 6 ms bump
Vibration resistance	DIN EN 60068-2-6	10 g / 10...500 Hz swept sine
	DIN EN 60068-2-64	10...2000 Hz noise
Electrical protection	DIN EN 61010-2-201	electric shock / electrical supply only via PELV circuits
MTTF	[years]	78
Mechanical data		
Weight	[g]	1075
Dimensions	[mm]	143.8 x 85 x 70.1

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Materials	diecast aluminium
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Accessories

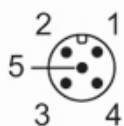
Items supplied	Protective covers
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Remarks

Remarks	The illumination unit is required for the operation of the sensor. Only use original ifm cables to connect sensor and illumination unit.
Pack quantity	1 pcs.

Electrical connection - CAN

Connector: 1 x M12; coding: A



1	Screen
2	9...32 V
3	GND
4	CAN-H
5	CAN-L

Electrical connection - Ethernet

Connector: 1 x M12; coding: D



1	TD +
2	RD +
3	TD -
4	RD -

Other data

Field of view size

Measuring range [m]	Length [m]	Width [m]	center pixel [cm]	
1	2.2	0.6	3.4 x 3.5	
5	11	2.8	17 x 17.2	
10	20.8	5.5	34 x 34.5	
15	32.8	8.3	51 x 52	
20	44	11	68 x 69	